



# Assembly of Planners

PLAN • PROTECT • PROGRESS

# Guam Coastal Management Program

Sharing Our Story





**Natural Resource  
Projects**

**International Coastal  
Cleanup**

**Pilot Projects**

**Information Transfer**

**And Outreach Program**

**Leadership Forums**

**Training**

**Assembly of Planners**

**Publications**

**MLS, Kika, Media,**

**R&D**

**GI / Shoreline Study**

**Comprehensive  
Planning  
and Gov  
Coordination**

**Geographic  
Information**

**System / Spatial  
Data Coordination**

**Land Use  
Natural Resource  
Planning**

**Federal Consistency  
Application Review  
Committee, GLUC  
GSPC, Env. C.H.**

**NPSP/ Watershed  
Committee**

**Public Access**

**NCLUP Guam 2065  
SGDMP**

**Form  
and  
Function**

# Coastal Zone Management Act



Healthy  
Ecosystems

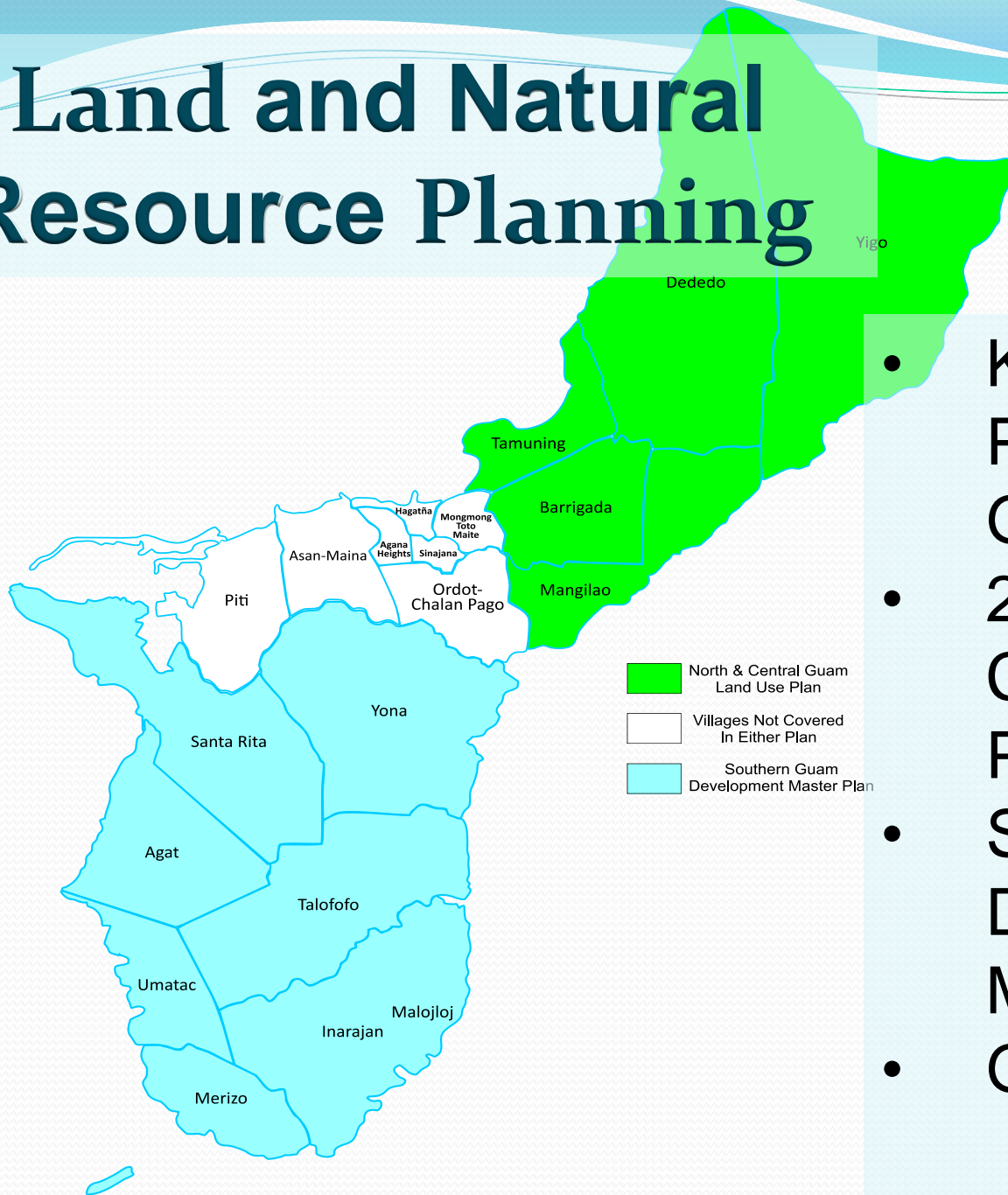
Resilient  
Communities

Vibrant  
Economies



NOAA  
Office for Coastal Management

# Land and Natural Resource Planning



- Kabales Na Planau Para Guahan
- 2010 North and Central Land Use Plan
- Southern Guam Development Master Plan
- Guam 2065

# LUP and Natural Resource Planning Controls

Guam State Clearinghouse

Guam Environmental  
Clearinghouse

Sea Shore Reserve Plan  
(draft)

Agency Plan

Recreational Ocean Use  
Management Plan

# Application Review Committee

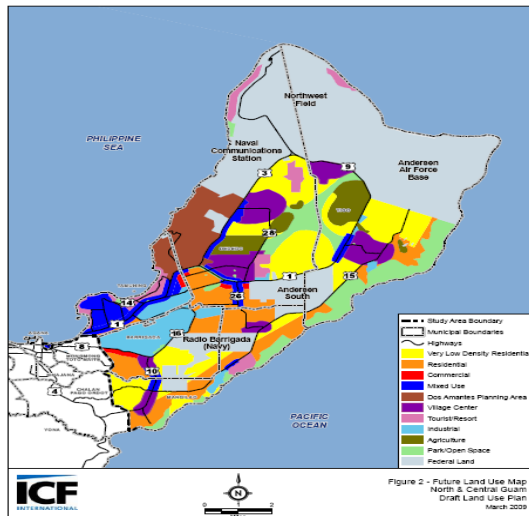
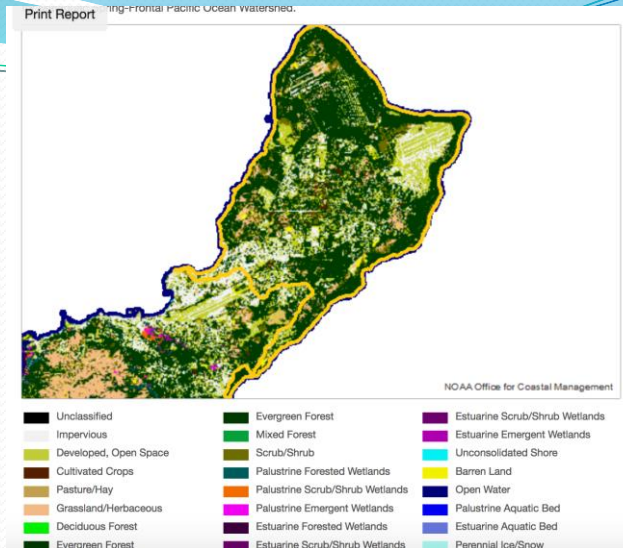
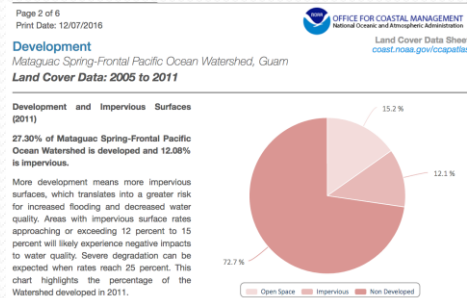
- Provides technical analysis and advice to the Guam Land Use Commission on development activities that do not meet zoning codes.
- Network Agencies include Environment, Agriculture and Infrastructure
- EO 96-26





# ARC Project Reviews

- Sketch map 500'
- Watershed Approach
- C-CAP
- GREAT Viewer
- NCLUP



## ARC Project Reviews

- FY 2012 56
- Construction Permits Issued
- FY 2010 684 (Building, clearing grading, and demolition)



# Federal Consistency Reviews

2012	78
2013	60
2014	73
2015	31
2016	31



THAAD



Realistic Urban Training Exercise

# Federal License or Permit



Inner Apra Harbor Dredge



Repair of Merizo Pier and  
Boat Ramp

# Information Transfer and Outreach

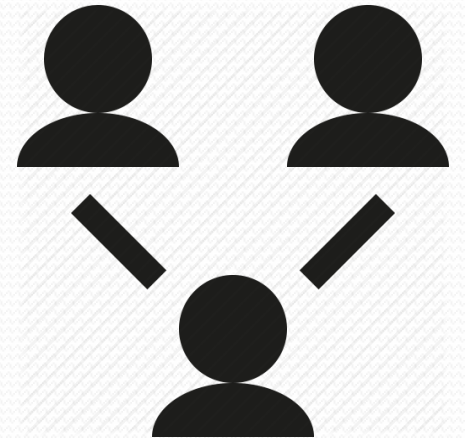
**Inform**



**Innovate**



**Enable**





**Inform**

**MAN LAND SEA**  
a publication by Guam Coastal Management Program



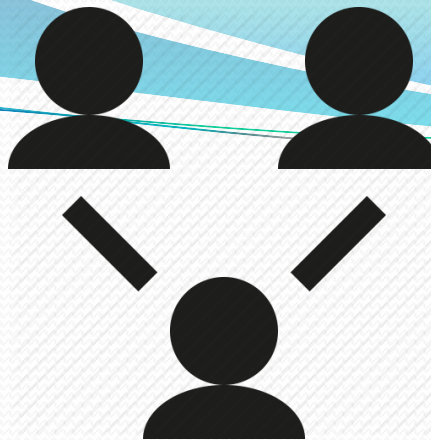
# ISLAND STORMWATER PRACTICE DESIGN SPECIFICATIONS

*A Supplement to the 2006 CNMI & Guam  
Stormwater Design Manual*



- Guidebook to Development Requirements on Guam (Rev. 2005)
- Guam Erosion & Sediment Control Field Guide (August 2012)

**Enable**



## Youthful Green Thumbs



Service Learning  
Guam DOE



**Coastal Marine Spatial  
Planning**



**Duke**   
NICHOLAS SCHOOL OF THE  
ENVIRONMENT



**Innovate**


**P<sup>3</sup> Assembly  
of Planners**  
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Studies:

- Shoreline Variability and Erosion
- Green Infrastructure Matrix
- Waste Characterization



**Assembly Of Planners' Symposium 2016**  
*"Planning The Village Of Tomorrow"*



**Save the Date**  
November 30, 2016 8am - 4pm  
Pacific Star Hotel


The Office of the Governor and the Bureau of Statistics and Plans, Guam Coastal Management Program, in association with John Ragon Marinas, and the Department of Land Management please to invite you to the second Assembly of Planners' Symposium 2016 "Planning The Village of Tomorrow" to be held at the Pacific Star Hotel on November 30, 2016.

The mission of the Symposium is to address challenges of matters affecting land use and its resource and to devise solutions to overcome such challenges through a unified multi government cooperative in an attempt to embrace, encourage, and institutionalize efforts of responsible, balanced, and smart development that will allow for the sustainable enjoyment and benefit of resources for the people of Guam and future generations.

This full day event will be comprised of talks from federal, state, municipal and private organizations discussing development and economic conditions on the horizon and ways to increase the success by which growth adds or minimizes impacts to the environment, visual quality, and cultural resources of Guam, while allowing for economic progress to continue and multi agency goals.

**Who should attend:** Personnel that support or influence the planning and regulatory function for land and natural resource management, legislators, mayors, NGOs, federal and local government, and board members from common tourism, contractors, real estate and development organizations.

**Register for Assembly of Planners Here:** Please contact the Guam Coastal Management Program at 475-9071 for any questions. Registration is subject to space availability.



This symposium is made possible through a grant from NOAA Office Coastal Management Award NA16OAR16028



# Outcomes of 2016 Symposium

- Forestry Plan Advancement
  - Will support elements of smart growth
- Reaffirm need for enforcement (Attorney General RFP) bolster effective enforcement
- Southern Guam Development Master Plan
  - integrated into work plan
- Expand use US Army Corps of Engineers Studies



## GU Project Highlights: Flood Impact Characterization and Green Infrastructure Matrix


Elevating flood hazard issues in underserved communities thru government coordination and empowering communities with Green Infrastructure Technology

NOAA CA NA15NOS4190218	
Federal	\$66,000
Performance Measures	# of coastal communities worked with to reduce future damage from hazards and increase public awareness of hazards.

# Defining the Problem







Create our Story  
Tell our story



CAP Section 205  
SFRP - Unfunded

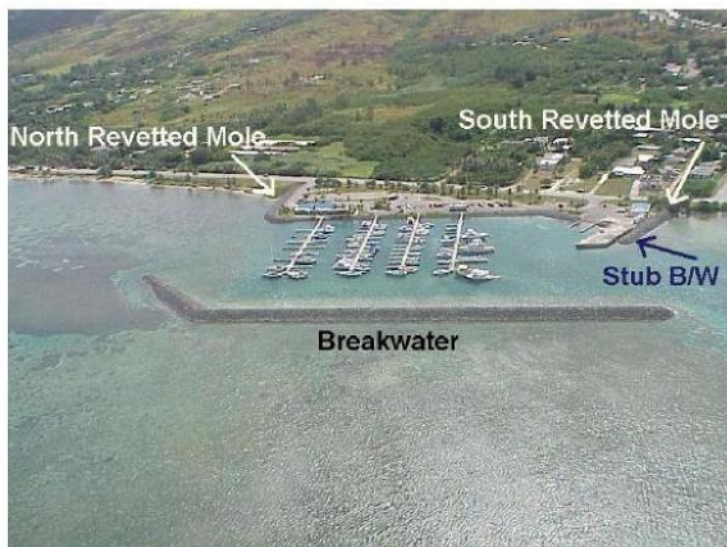




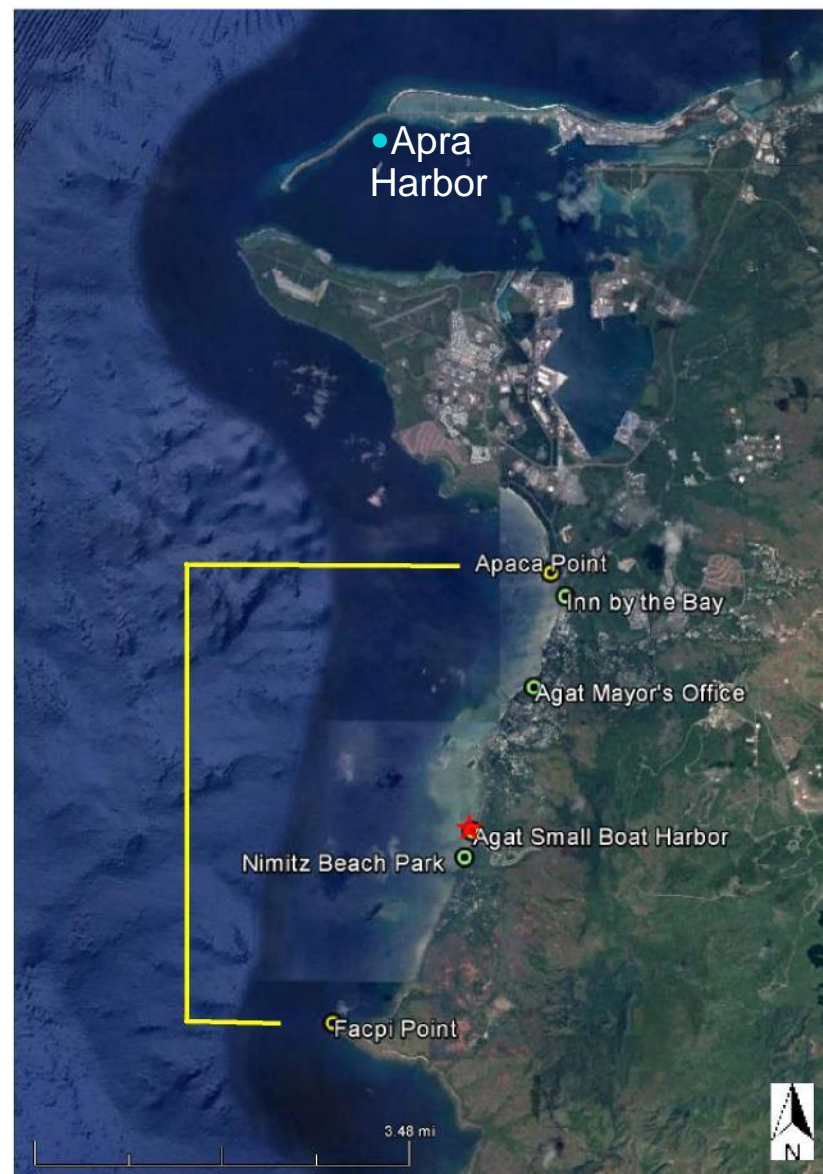
# ● STUDY LOCATION

## ● Cost \$369,000

- Apaca Point (north of Namo River) to Facpi Point (approximately 6.0 miles)
- Phase I: Quantification of Agat Small Boat Harbor's impacts on adjacent shorelines and assessment of various harbor modifications
- Phase II: Identify regional erosion areas and develop recommendations for shoreline stabilization



Aerial View of Agat SBH



US Army Corps  
of Engineers®





# GUAM COMPREHENSIVE FLOOD STUDY

Year 1 and 2  
\$3000,000

U.S. Army Corps of Engineers  
Honolulu District

February 27, 2018



## KEY OUTCOMES OF THE STUDY

An update of the regional flood frequency analysis for southern Guam

An updated inventory of flood prone areas

Site-specific hydrologic and hydraulic analysis of two to four flood prone areas within the inventory based on GCMP Watershed delineation

- May be used for re-assessment of the Hagatña River Flood Mitigation Project
- Preliminary flood mitigation design concepts for the aforementioned sites.

# Added Value

## **Force Multiplier**

Shoreline Study \$369,000

Flood Study \$300

Design Build must fit CIP - The Story Continues



## Legislative Branch

- Earmark Appropriations
- Bond approval / CIP





**Nate Denight**  
**GVB General Manager**



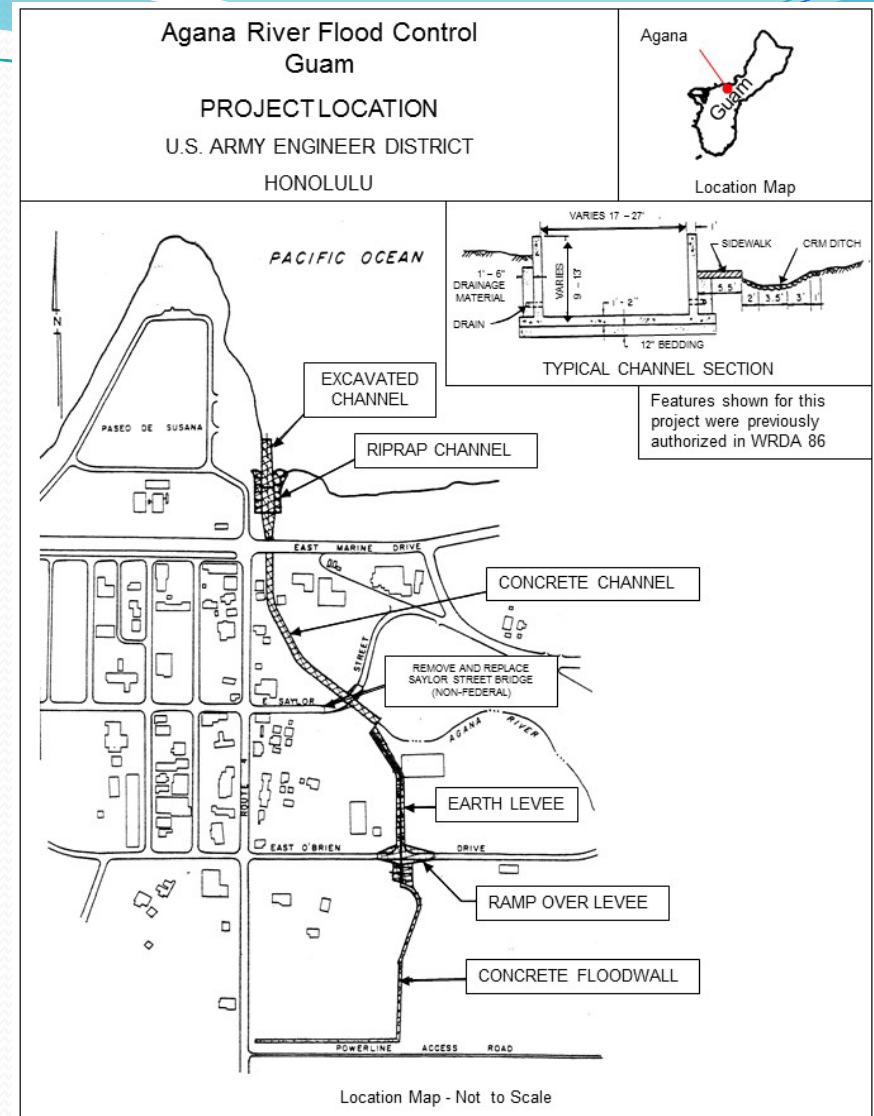
# Community and Media





# Why do we need to tell our story

1986 WRDA





# Planning Controls



Clearing House Gov. Key Staff

Governor / Lt Gov Office

Bureau of  
Statistics and Plans

Bureau Budget and  
Management

- Kabales na Planu Para Guahan / North and Central LUP
- Guam 2065 Land and CIP
- Guam State Clearinghouse
- Guam Highway Master Plan - DT – High-Way Funds
- Guam Hazard Mitigation Plan - FEMA HMG